

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 139 (CHARLES ST.) AND MD 134/BELLONA AVE. IN BALTIMORE COUNTY. MD 139 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION IS OPERATING IN A NEMA SIX-PHASE, FULL-TRAFFIC ACTUATED MODE WITH THE MD 139 APPROACHES OPERATING CONCURRENTLY AND THE MD 134 APPROACHES OPERATING CONCURRENTLY.

EXCLUSIVE LEFT-TURN PHASING EXISTS FOR NORTHBOUND MD 139 (CHARLES STREET) APPROACH. RIGHT TURN OVERLAP PHASING EXISTS ON THE MD 134/BELLONA AVENUE APPROACHES.

EXCLUSIVE PHASING WILL BE PROVIDED FOR THE SOUTHBOUND MD 139 (CHARLES STREET) APPROACH.

PEDESTRIAN INDICATIONS ARE PROVIDED ACROSS THE MD 134/BELLONA AVE. APPROACHES AND ALTERNATE PEDESTRIAN PHASES ARE PROVIDED ACROSS THE MD 139 APPROACHES.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER SHALL BE USED.

MAINTENANCE OF TRAFFIC

THE FOLLOWING MINIMUM TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

STANDARD NO. MD-104.03-09 (INTERSECTION FAR-LEFT LANE CLOSURE)

STANDARD NO. MD-104.03-11 (INTERSECTION FAR-RIGHT LANE CLOSURE)

STANDARD NO. MD-104.03-13 (FAR SIDE CLOSURE)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. RANDALL SCOTT
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 321-2781/2785

MR. MIKE PASQUARIELLO
ASST. DISTRICT UTILITY ENGINEER
PHONE: (410) 321-2841

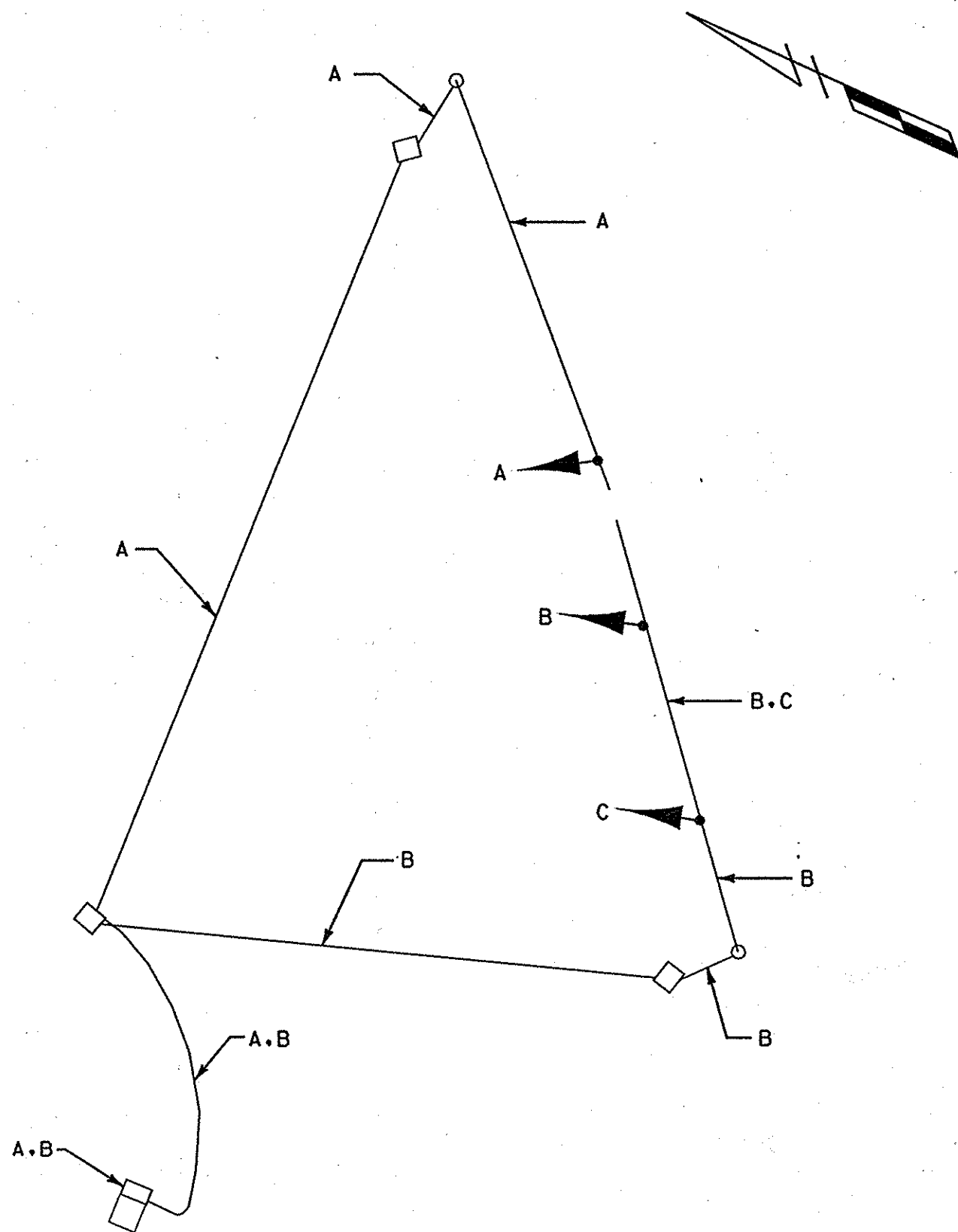
MR. STEVE MARCISZEWSKI
ASSISTANT DISTRICT ENGINEER - MAINTNANCE
PHONE: (410) 321-2761

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

WIRING DIAGRAM

WIRING KEY

A
B
C } 5-CONDUCTOR ELECTRICAL
CABLE (NO. 14 A.W.G.)



EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED AND INSTALLED BY THE SHA

QUANTITY

25 S.F.

1 EACH

4 EACH

18 EACH

10 EACH

1 EACH

25 S.F.

1 EACH

550 L.F.

DESCRIPTION

SHEET ALUMINUM SIGNS TO CONSIST OF :

- 1 EACH R10-5 SIGN (30 IN. x 24 IN.) - MAST ARM MOUNT
- 4 EACH R10-4(1) SIGN (9 IN. x 12 IN.) - POLE MOUNT
- 2 EACH R3-5(R) SIGN (30 IN. x 36 IN.) - MAST ARM MOUNT

MAINTENANCE OF TRAFFIC

12 INCH PEDESTRIAN SIGNAL HEAD

12 INCH RED OR GREEN LED SIGNAL HEAD SECTION

12 INCH YELLOW LED SIGNAL HEAD SECTION

REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT

INSTALL OVERHEAD SIGN

RELOCATE EXISTING SIGNAL HEAD

ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)

EQUIPMENT LIST "B"

A. EQUIPMENT TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR

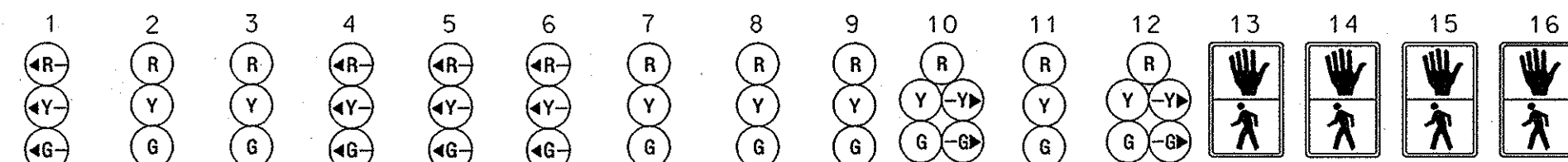
NONE

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

N/A

PHASE CHART



PHASE 1 + 5	←G→	R	R	←G→	←G→	←G→	R	R	R	←G→	R	←G→	DW	DW	DW	DW
1 + 5 CHANGE	PHASE 1 + 5 MAY CHANGE TO PHASE 1 + 6, PHASE 2 + 5 OR PHASE 2 + 6															
PHASE 1 + 6	←G→	G	G	←G→	←R→	←R→	R	R	R	←G→	R	R	DW	WK	WK	DW
1 + 6 CHANGE	←Y→	G	G	←Y→	←R→	←R→	R	R	R	←G→	R	R	DW	WK	WK	DW
PHASE 2 + 5	←R→	R	R	←R→	←G→	←G→	G	G	R	R	R	←G→	WK	DW	DW	WK
2 + 5 CHANGE	←R→	R	R	←R→	←Y→	←Y→	G	G	R	R	R	←G→	WK	DW	DW	WK
PHASE 2 + 6	←R→	G	G	←R→	←R→	←R→	G	G	R	R	R	R	WK	WK	WK	WK
PED CLEARANCE	←R→	G	G	←R→	←R→	←R→	G	G	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW
2 + 6 CHANGE	←R→	Y	Y	←R→	←R→	←R→	Y	Y	R	R	R	R	DW	DW	DW	DW
PHASE 4 + 8	←R→	R	R	←R→	←R→	←R→	R	R	G	G	G	G	DW	DW	DW	DW
4 + 8 CHANGE	←R→	R	R	←R→	←R→	←R→	R	R	Y	Y	Y	Y	DW	DW	DW	DW
PHASE 4 + 8 ALT	←R→	R	R	←R→	←R→	←R→	R	R	G	G	G	G	DW	DW	DW	DW
PED CLEARANCE	←R→	R	R	←R→	←R→	←R→	R	R	G	G	G	G	DW	DW	DW	DW
4 + 8 ALT CHANGE	←R→	R	R	←R→	←R→	←R→	R	R	Y	Y	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	FL/←R→	FL/Y	FL/Y	FL/←R→	FL/←R→	FL/←R→	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK

WR&A

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MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION SHEET
MD 139 (Charles St.) AND MD 134/Bellona Ave.

DRAWN BY: S.BLOSS
CHECKED BY: N.LEARY
SCALE: NONE
DATE: 2/14/2006

F.A.P. NO.
S.H.A. NO.
COUNTY: BALTIMORE
LOG MILE: 03013903.25

TS NO.
TS-1824B
T.I.M.S. NO.
F379

SHEET NO.
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